ABSTRACT

There is provided a VCO having a modulation function capable of easily constituting a correction circuit which can obtain a predetermined modulation degree even when element irregularities are present. A modulation current terminal is connected to an anode side connection point of a first and a second varactor diode. A first resistor is connected between the connection point and an anode side connection point (grounding voltage) of a third and a fourth varactor diode. Voltage deciding the oscillation frequency is input from the voltage input terminal via the second resistor to the cathode side connection point of the first and the third varactor diode and via the third resistor to the cathode side connection point of the second and the fourth varactor diode. A first and a second capacitor are connected from a power source via a first and a second inductor to the cathode side of the first and the second varactor diode. Thus, it is possible to obtain a circuit having a frequency modulation degree expressed as a function of Kv.